

## Toshiba International Corporation Uninterruptible Power Systems



### **1600EP Series 3.6kVA 240V In - 240V Out Tower Maintenance Bypass Solution**

Toshiba's 1600EP Series is an on-line Uninterruptible Power Supply (UPS) systems provide continuous computer-grade ac power in a compact, high performance, and energy efficient unit. The UPS unit assures safe and reliable operation of critical office equipment. This can range from word processors and personal computers to mini-computers and local area networks. All units feature an audible alarm, which sounds if the battery voltage drops below standard during use. This is an additional aid to help in retaining the valuable office data banks. All units allow for computer interfacing.

This model is a Maintenance Bypass solution. Maintenance Bypass solution is a two breaker maintenance bypass panel. This is a 240V input and 240-output solution.

### **Product Specifications**

INPUT	Voltage	240Vac
	Voltage Range	168V~264V (+10% to -30%)
	Frequency	50/60 Hz Auto Sensing
	Synchronization window	± 3Hz
	Power Factor	Greater than 0.95
	THD Current	Less than 5% at Full Load
	Topology	True On-Line, Double Conversion, Input PF Correction
OUTPUT	Voltage	240Vac
	Capacity (VA)	3600
	Capacity (W)	3100
	Voltage Regulation	± 3%
	Voltage Distortion	Less than 6% THD at Full Non-Linear Load. Less than 3% THD at full Linear Load.
	Step Load	± 8 % max from 100% to 0 % or from 0% to 100 % linear load
	Rated Current	15A
	Max Peak Current	45A

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	Overload Capacity	125% for 30 secs, 150% for 10 secs
	Crest Factor	3.0 at full load
	Frequency	50/60 Hz Auto Sensing
	Frequency Regulation	± 0.5Hz/± 1.0Hz/± 1.5Hz (authorized service center selectable only)
	Wave Form	Sine wave, Zero Transfer Time
	Load Power Factor	0.85
	Efficiency AC to AC	Greater than 83%
	Common Mode Noise	Less than 0.5 Vrms
BATTERY	DC Voltage	216V
	Backup Time	10 min (full load) 30 min (half load)
	Battery type	Energys NPX-35 Flame Retardant Lead Acid 9Ah/12V Part #: 51896
	Number of batteries Pack	3 (Six batteries in each pack)
	Recharge time	<12 hours to 90%
PHYSICAL	Interface	RS-232, Dry Contact Connectivity, External Battery Connectivity
	Input	Hardwire Input
	Output	Hardwire Output
	Dimensions WxDxH (mm)	838x254x711
	Ship Dimensions WxDxH (mm)	965x432x940
	Dimensions W x D x H (inch)	33x10x28
	Ship Dimensions WxDxH (inch)	38x17x37
	Weight kg (lb)	120.2 (265)
	Ship Weight kg (lb)	127 (280)
OPTION	External Matching Battery Cabinet	Single - 70 Mins, Double - 140 Mins. Max Two Cabinets. Part #: UE3-BC-0650
	Network Interface Card	RemotEye II - Part #: RMTI-INT-R25
	Environmental Monitoring Device	Part #: RMTI-EMD-HT
ENVIRONMENT	Operating Ambient Temperature	0 ~ 40°C (32 ~ 104°F)
	Recommended Temperature	+15°C ~ 25°C
	Storage Temperature	-20°C ~ 40°C
	Humidity	30-90%, Non-Condensing
	Audible Noise	50dB (A) maximum @ 1 meter from Front Panel
	Altitude	3300 ft (1,000 m) above sea level
CONFORMANCE	Regulatory Approvals	UL, CUL, ISO 9001, NEMA/PEI-1993
WARRANTY		Three years on electronics
		Two years full replacement on battery (See Toshiba warranty policy for full details)